TRANSLATION PATENT COOPERATION TREATY POT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference R-80	FOR FURTHER ACTION	See Form PCT/IPEA/416							
International application No.	International filing date (day/month/year)	Priority date (day/month/year)							
PCT/JP2004/018537	07.12.2004	08.12.2003							
		00.12.1200							
International Patent Classification (IPC) or national classification and IPC F16K7/17									
Applicant FUJIKIN INCORPORATED									
1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.									
2. This REPORT consists of a total of	5 sheets, including	g this cover sheet.							
This report is also accompanied by A	NNEXES, comprising:								
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:							
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental									
Box.									
b (sent to the International	Bureau only) a total of (indicate type and number	r of electronic carrier(s))							
		, containing a sequence listing and/or tables							
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).									
This report contains indications relations									
Box No. I Basis of the									
Box No. II Priority									
Box No. III Non-establi	shment of opinion with regard to novelty, invent	ive step and industrial applicability							
Box No. IV Lack of uni	ty of invention								
BOX 110. 1									
Box No. VII Certain defe	ects in the international application								
Box No. VIII Certain obs	ervations on the international application								
Date of submission of the demand	Date of completion of th	is report							
Name and mailing address of the IPEA/JP	Authorized officer								
Facsimile No.	Telephone No.								

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International application No.

PCT/JP2004/018537

Вох	No. I	Basis	s of the report				
1.		regard to the l	language, this report is based on the international application in the language in which it was filed, unless otherwise s item.				
		•	report is based on translations from the original language into the following language th is the language of a translation furnished for the purposes of:				
		internat	tional search (Rule 12.3 and 23.1(b))				
		publicat	tion of the international application (Rule 12.4)				
		internat	tional preliminary examination (Rule 55.2 and/or 55.3)				
2.	rece		ard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the coefficient of the office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to rt):				
	\boxtimes	the internation	onal application as originally filed/furnished				
		the description	on:				
		pages	as originally filed/furnished				
		pages*	received by this Authority on				
		pages*	received by this Authority on				
		the claims:					
		nos.	as originally filed/furnished				
		nos.*	as amended (together with any statement) under Article 19				
		nos.*	received by this Authority on				
		nos.*	received by this Authority on				
		the drawings:	:				
		sheets	as originally filed/furnished				
		sheets*	received by this Authority on				
		sheets*	received by this Authority on				
		a sequence lis	sting and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.				
3.		The amendme	ents have resulted in the cancellation of:				
		the desc	cription, pages				
			ims, nos.				
			the drawings, sheets/figs				
			uence listing (specify):				
		any tabl	ele(s) related to sequence listing (specify):				
4.			has been established as if (some of) the amendments annexed to this report and listed below had not been made, since en considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).				
		the desc	cription, pages				
			ims, nos.				
			wings, sheets/figs				
			uence listing (specify):				
		any tabl	ele(s) related to sequence listing (specify):				
*	If ite	m 4 applies, so	ome or all of those sheets may be marked "superseded."				

International application No.
PCT/JP2004/018537

Box			ticle 35(2) with regard to novelty, inventive step or industrial applicability; oporting such statement	
1.	Statement			
	Novelty (N)	Claims	1-6	YES
		Claims		NO
	Inventive step (IS)	Claims	1-6	YES
		Claims		NO
	Industrial applicability (IA)	Claims	1-6	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

[Citations]

Document 1: JP 2000-65225 A (CKD Corp.), 03 March 2000, entire text and fig. 1 to 14

Document 2: JP 9-100930 A (Kabushiki Kaisha Esutekku), 15

April 1997, entire text and fig. 1 to 5

Document 3: JP 2003-42314 A (Fujikin Inc.), 13 February 2003, entire text and fig. 1 to 2

Document 4: JP 10-332003 A (CKD Corp.), 15 December 1998, entire text and fig. 1 to 5

Claims 1 to 6

Documents 1 to 4 are reference documents that define the general state of the art of the technical field in question. However, the documents that are cited in the international search report do not disclose or suggest the fluid controller equipped with a block-shaped main body, which comprises a fluid inflow passage, a fluid outflow passage and a recessed part that opens out in the upwards direction, and a diaphragm disposed within the recessed part of the main body, which is pressed against the annular valve seat or retracted from the annular valve seat in order to close or open the flow

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

passage, wherein:

the recessed part has a form consisting of a section with a large diameter, which is located in the vicinity of the opening, and a section with a small diameter, which is connected to the lower part of the large diameter section via a stepped section, said recessed part being provided with a flow passage formation disk that is inserted into said recessed part;

the flow passage formation disk is configured from a cylindrical section with a large diameter, which is configured so as to mesh with the large diameter section of the recessed part in a watertight manner, a cylindrical section with a small diameter, which is configured so that the outer diameter thereof is smaller than the inner diameter of the small diameter section of the recessed part and is also configured so that the lower end thereof is received by the bottom surface of the recessed part, and a linking section, which is configured so as to link the lower end of the large diameter cylindrical section and the upper end of the small diameter cylindrical section and is also configured so as to be received by the stepped section of the recessed part;

the outer peripheral edge of the diaphragm is affixed to the upper end of the large diameter cylindrical section of the flow passage formation disk;

the valve seat is provided to the upper end of the small diameter cylindrical section of the flow passage formation disk;

the inner periphery of the large diameter cylindrical section of the flow passage formation disk, the diaphragm, the valve seat and the upper surface of the

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

linking section of the flow passage formation disk form an annular space on the interior of the large diameter cylindrical section;

the linking section of the flow passage formation disk is provided with a plurality of through holes that interconnect the annular space on the interior of the large diameter cylindrical section with the annular space on the exterior of the small diameter cylindrical section, which is formed between the small diameter cylindrical section of the flow passage formation disk and the peripheral surface of the small diameter section of the recessed part; and

either the fluid inflow passage or the fluid outflow passage is formed so as to connect with the lower end of the small diameter cylindrical section of the flow passage formation disk, while the other member is formed so as to connect with the annular space on the exterior of the small diameter cylindrical section of the flow passage formation disk.